

# PATENTS & NPL ABSTRACTS

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S2	4631607	NEURAL? OR NEURON?
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? t s52/3,k/1-33

Dialog eLink: **ISPTD Full Text Retrieval Options**

52/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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14078098 PMID: 11346214

**Sympathetic nervous system activation in essential hypertension, cardiac failure and psychosomatic heart disease.**

Esler M; Kaye D

Baker Medical Research Institute Melbourne, Australia.

Journal of cardiovascular pharmacology ( United States ) 2000 , 35 (7 Suppl 4) pS1-7 ,

ISSN: 0160-2446--Print 0160-2446--Linking Journal Code: 7902492

Publishing Model Print

**Document type:** Journal Article; Research Support, Non-U.S. Gov't; Review

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

...hypertension: Such measurements in patients with essential hypertension disclose activation of the sympathetic outflows to **skeletal** muscle blood vessels, the heart and kidneys, particularly in younger patients. This sympathetic activation, in... ..attributable to blood pressure reduction, in protecting against hypertensive complications. Obesity-related hypertension: Understanding the **neural** pathophysiology of hypertension in the obese has been difficult. In normotensive obesity, renal **sympathetic tone** is doubled, but cardiac noradrenaline spillover (a **measure** of sympathetic activity in the heart) is only 50% of normal. In obesity-related hypertension... ..normotensive obese. Heart failure: In cardiac failure, the sympathetic nerves of the heart are preferentially **stimulated**. Noradrenaline release from the failing heart at rest in untreated patients is increased as much... ..abnormalities, particularly depressive illness, anxiety states, including panic disorder and mental stress, are involved here, ' **triggering**' clinical cardiovascular events, and possibly also contributing to atherosclerosis development. The mechanisms of increased cardiac... (

Dialog eLink: **ISPTD Full Text Retrieval Options**

52/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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13842804 PMID: 10921528

**The sympathetic system and hypertension.**

Esler M

Baker Medical Research Institute, Prahran, Melbourne, Australia. esler@baker.edu.au

American journal of hypertension ( UNITED STATES ) Jun 2000 , 13 (6 Pt 2) p99S-105S , ISSN: 0895-7061--Print 0895-7061--Linking **Journal Code:** 8803676

Publishing Model Print

**Document type:** Journal Article; Research Support, Non-U.S. Gov't; Review

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

...measurement of norepinephrine spillover) techniques demonstrates activation of sympathetic outflow to the heart, kidneys, and **skeletal** muscle vasculature in younger (< 45 years) patients. The increase in sympathetic activity is a mechanism... ..initiating and sustaining the blood pressure elevation. Sympathetic nervous activation also confers specific cardiovascular risk. **Stimulation** of the sympathetic nerves to the heart promotes the development of left ventricular hypertrophy and contributes to the genesis of ventricular arrhythmias and sudden death. Sympathetically mediated vasoconstriction in **skeletal** muscle vascular beds reduces the uptake of glucose by muscle, and is thus a basis for insulin resistance and consequent hyperinsulinemia. Understanding the **neural** pathophysiology of obesity-related hypertension has been more difficult. In normotensive obesity, renal **sympathetic tone** is doubled, but cardiac norepinephrine spillover (a **measure** of sympathetic activity in the heart) is only 50% of normal. In obesity-related hypertension... (

**Dialog eLink:** **USPTO Full Text Retrieval Options**

52/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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13065358 **PMID:** 9830574

**Effect of spinal cord injury on the heart and cardiovascular fitness.**

Phillips W T; Kiratli B J; Sarkarati M; Weraarchakul G; Myers J; Franklin B A; Parkash I; Froelicher V

Department of Physical Education, Arizona State University, Tempe, USA.

Current problems in cardiology ( UNITED STATES ) Nov 1998 , 23 (11) p641-716 ,

ISSN: 0146-2806--Print 0146-2806--Linking **Journal Code:** 7701802

Publishing Model Print

**Document type:** Journal Article; Review

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

**Effect of spinal cord injury on the heart and cardiovascular fitness.**

...cardiac function; greater stimulus for metabolic, cardiovascular, and pulmonary training

adaptations; and greater stimulus for **skeletal** muscle training adaptations. In addition, the availability of relatively inexpensive commercial FES units to elicit... ..return as a result of lower-limb blood pooling, as a result of lack of **sympathetic tone**, and a diminished or absent venous "muscle pump" in the legs. This latter mechanism perhaps... (

**Descriptors:** \*Cardiovascular Diseases--etiology--ET; \*Cardiovascular System --physiopathology--PP; \*Exercise **Therapy**; \*Physical Fitness; \*Spinal Cord Injuries--physiopathology--PP ; ...DI; Autonomic Nervous System Diseases--therapy--TH; Cardiovascular Diseases--prevention and control--PC; Hemodynamics; Humans; **Spinal Cord Injuries--complications--CO**

**Named Person:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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08735156 **PMID:** 3279437

**Effects of soft tissue mobilization (Rolfing pelvic lift) on parasympathetic tone in two age groups.**

Cottingham J T; Porges S W; Lyon T

Frances Nelson Health Center, Champaign, IL 61820.

Physical therapy ( UNITED STATES ) Mar 1988 , 68 (3) p352-6 , **ISSN:** 0031-9023--

Print 0031-9023--Linking **Journal Code:** 0022623

Publishing Model Print

**Document type:** Comparative Study; Journal Article; Research Support, Non-U.S. Gov't; Review

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

...heart rate. Heart rate patterns were assessed during the pelvic lift and during the durational **touch** and baseline control conditions. Two groups of healthy subjects were tested: Group 1 contained 20... ..a somatovisceral-parasympathetic reflex characterized by a significant increase in parasympathetic tone relative to durational **touch** and baseline conditions. Group 2 did not exhibit a parasympathetic change during the pelvic lift... ..clinically successful in treating myofascial pain syndromes and other musculoskeletal dysfunctions characterized by reduced parasympathetic **tone** and excessive **sympathetic** activity. (

**Descriptors:** \*Manipulation, **Orthopedic**; \*Muscle Tonus; \*Parasympathetic Nervous System--physiology--PH; \*Pelvis--physiology--PH

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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05101364 PMID: 1179891

**[Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries]**

Effektivnost' kompleksnogo lecheniia fizicheskimi faktorami bol'nykh s travmoi pozvonochnika i spinnogo mozga

Kalny'sh Ia Ia

Zhurnal nevropatologii i psikhatrii imeni S.S. Korsakova (Moscow, Russia - 1952) ( USSR ) 1975 , 75 (9) p1324-8 , ISSN: 0044-4588--Print 0044-4588--Linking

**Journal Code:** 8710066

Publishing Model Print

**Document type:** English Abstract; Journal Article

**Languages:** RUSSIAN

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

**[Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries]**

It is demonstrated that a trauma of the **spine** with a damage of the **spinal** cord in the thoracal area leads to an increase in the **tone** of the **sympathical** and parasympathical part of the vegetative nervous system and arterial tone of the affected extremities... ..the author found a correlation between the clinical picture and a subsequent increase in the **tone** of the **sympathical** part of the vegetative nervous system and arterial tone of the legs. (

**Descriptors:** \*Physical Therapy Modalities; \*Spinal Cord Injuries --therapy--TH; \*Spinal Injuries--therapy--TH ; ...DU; Exercise Therapy; Humans; Hydrogen Sulfide--therapeutic use--TU; Iodides--therapeutic use--TU; Iontophoresis; Latvia; **Massage**; Middle Aged; Morphine Derivatives--diagnostic use--DU; Mud Therapy; Muscle Tonus; Skin Tests; **Spinal** Cord Injuries--physiopathology--PP; **Spinal** Injuries--physiopathology--PP; Vascular Resistance

**Named Person:**

**Dialog eLink:** **ISPTO Full Text Retrieval Options**

52/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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05007283 PMID: 1122215

**Arterial baroreceptor function in differential cardiovascular adjustments induced by central thermal stimulation.**

Conradt M; Kullmann R; Matsuzaki T; Simon E

Basic research in cardiology ( GERMANY, WEST ) Jan-Feb 1975 , 70 (1) p10-28 ,

ISSN: 0300-8428--Print 0300-8428--Linking **Journal Code:** 0360342

Publishing Model Print

**Document type:** Journal Article

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

**Arterial baroreceptor function in differential cardiovascular adjustments induced by central thermal stimulation.**

...choline and were kept under artificial ventilation. Both carotid bifurcations were denervated and the Vagus **nerves** were cut in the neck. Regional blood flow in the skin and the intestine, cardiac output, heart rate and arterial **pressure** were determined before, during and after **spinal** cord **heating** and cooling. Further experiments were performed in which, in addition, sympathetic effects on the heart... ..compared with those obtained in a preceding investigation from dogs with intact baroreceptors and vagus **nerves**. As in intact dogs, appropriate thermoregulatory adjustments of skin blood flow were induced by **thermal stimulation** of the **spinal** cord after baroreceptor denervation and vagotomy. However, blood **pressure** homeostasis was lost. The pattern of cardiovascular adjustments during **heating** consisted in cutaneous vasodilatation intestinal vasoconstriction and, due to sympathetic activation an increase of heart rate and cardiac output. This pattern was qualitatively identical with that intact animals. During **spinal** cord cooling the cardiovascular response pattern consisted in cutaneous vasoconstriction, intestinal vasoconstriction and, depending on... ..but basic features were still present as indicated by opposite changes of cardiac and vascular **sympathetic tone** during cooling. It is concluded that the baroreceptor signals play no primary role in the... ..of observations in animals with intact baroreceptor input. However, baroreceptor signals contribute significantly to blood **pressure** homeostasis which is normally maintained during **spinal thermal stimulation**. (

**Descriptors:** ; Animals; Arteries; Blood **Pressure**; Cardiac Volume; Cold Temperature; Dogs; Heart Rate; Hot Temperature; Intestines--blood supply--BS; Neurophysiology; Physical Stimulation; Regional Blood Flow; Skin--blood supply--BS; **Spinal** Cord; Sympathetic **Nervous System** --physiology--PH; Vagotomy

**Named Person:**

Dialog eLink: **BSPTD Full Text Retrieval Options**

52/3,K/7 (Item 1 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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18623314 **Biosis No.:** 200510317814

**Insulin-induced hypoglycemia stimulates gastric vagal activity and motor function without increasing cardiac vagal activity**

**Author:** Hjelland Ina Elen (Reprint); Oveland Nils Petter; Leversen Katrine; Berstad Arnold; Hausken Trygve

**Author Address:** Haukeland Univ Hosp, Inst Med, NO-5021 Bergen, Norway\*\*Norway

**Author E-mail Address:** ina.hjelland@med.uib.no

**Journal:** Digestion 72 ( 1 ): p 43-48 2005 2005

**ISSN:** 0012-2823

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

**Insulin-induced hypoglycemia stimulates gastric vagal activity and motor function without increasing cardiac vagal activity**

**Abstract:** ...in healthy subjects. Methods: Twenty healthy volunteers (10 males) were examined with and without vagal **stimulation** by insulin-induced hypoglycemia using a glucose clamp technique. Stomach function was tested by drinking... ...polypeptide (PP) as a measure of gastric vagal activity, and skin conductance (SC) as a **measure** of **sympathetic tone**. Results: Insulin-induced hypoglycaemia increased drinking capacity ( $p=0.002$ ), gastric emptying ( $p=0.02$ ...

**DESCRIPTORS:**

**Major Concepts:** ...Neural Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

**Dialog eLink:** [ISPTO Full Text Retrieval Options](#)

52/3,K/8 (Item 2 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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18041545 **Biosis No.:** 200400412334

**Efficacy of combined kineso- and psychotherapy in the treatment of patients with migraine.**

**Author:** Grigorieva V N; Gustov A V; Kornilova L E; Kulikova O A

**Journal:** Zhurnal Nevrologii i Psikhiiatrii Imeni S. S. Korsakova 103 ( 12 ): p 20-25  
2003 2003

**Medium:** print

**Document Type:** Article

**Record Type:** Abstract

**Language:** Russian

**Abstract:** ...individual kineso- and psychotherapy, and patients of group 2 (18) received a course of standard **physical therapy** and explanatory psychotherapy. After the treatment course, a significant decrease in intensity of headaches of... ...increased bicycle exercise tolerance, equalizing of the ratio between activities of ergo- and trophotropic systems, **sympathic** and parasympathic **tones** evaluated by mathematical analysis of



heart rhythm variability, a decrease of the level of emotional... ..group differences in regression extent of this index. The results obtained indicate efficacy of combined **physical therapy** and psychocorrection in the treatment of migraine patients. Moreover, individual approach to kinesio- and psychotherapy...

**DESCRIPTORS:**

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Organisms:**

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

Dialog eLink:

**ISPTD Full Text Retrieval Options**

52/3,K/9 (Item 3 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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11575796 **Biosis No.:** 199345006776

**Heart rate variability: Can it measure sympathetic tone?**

**Author:** Ahmed Mirza; Goldberger Jeffrey; Singer Donald; Kadish Alan

**Author Address:** Northwestern Univ. Med. Sch., Chicago, IL, USA\*\*USA

**Journal:** Circulation 86 ( 4 SUPPL. 1 ): p I657 1992

**Conference/Meeting:** 65th Scientific Sessions of the American Heart Association New Orleans, Louisiana, USA November 16-19, 1992; 19921116

**ISSN:** 0009-7322

**Document Type:** Meeting

**Record Type:** Citation

**Language:** English

**Heart rate variability: Can it measure sympathetic tone?**

**DESCRIPTORS:**

**Major Concepts:** ...Neural Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

**Miscellaneous Terms: Concept Codes:** ...STIMULUS DEPENDENCE

Dialog eLink:

**ISPTD Full Text Retrieval Options**

52/3,K/10 (Item 4 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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11402846 **Biosis No.:** 199294104687

**HYPERRESPONSIVENESS OF SYMPATHOADRENAL SYSTEM IN CONSCIOUS DOCA-SODIUM CHLORIDE AND SHR RATS IN RESPONSE TO**

## ACUTE HEMORRHAGIC HYPOTENSION

**Author:** DROLET G (Reprint); DE CHAMPLAIN J

**Author Address:** CENTRE RECHERCHE CHUL, UNITE RECHERCHE SUR L'HYPERTENSION, 2705 BOUL LAURIER, STE-FOY, QUEBEC G1V 4G2\*\*CANADA

**Journal:** Clinical and Investigative Medicine 15 ( 4 ): p 360-370 1992

**ISSN:** 0147-958X

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** The **sympathoadrenal** basal **tone** and reactivity were evaluated by the **measure** of plasma norepinephrine (NE) and epinephrine (EPI) levels in chronically cannulated awake and unrestrained animals... ..the baroreflex functions or in the local modulatory mechanisms. In addition, the acute hemorrhagic hypotension **triggered** compensatory mechanisms which permitted a rapid return of the MAP to the baseline values in...

### DESCRIPTORS:

**Major Concepts:** ...Neural Coordination

**Biosystematic Names:** ...Rodentia, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...Nonhuman **Vertebrates**; ... ..**Vertebrates**

**Diseases:**

**Dialog eLink:** **ISPTO Full Text Retrieval Options**

52/3,K/11 (Item 5 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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09598145 **Biosis No.:** 198987046036

## DO INCREASED CATECHOLAMINES AND PLASMA METHIONINE ENKEPHALIN IN CIRRHOSIS PROMOTE BLEEDING ESOPHAGEAL VARICES

**Author:** THORNTON J R (Reprint); DEAN H G; LOSOWSKY M S

**Author Address:** DJEP MED, ST JAMES'S UNIV HOSP, LEEDS, UK\*\*UK

**Journal:** QJM 68 ( 255 ): p 541-552 1988

**ISSN:** 0033-5622

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** ...peptides may play a part in this vasodilatation. As initial investigation of this hypothesis, we **measured** noradrenaline (an indicator of **sympathetic tone**), adrenaline and methionine enkephalin in the plasma of patients with cirrhosis with oesophageal

varices which... use of opioid antagonists may enable determination of whether elevated plasma opioid peptides in cirrhosis **stimulate** the increase in sympathetic tone and plasma adrenaline, and promote bleeding oesophageal varices.

**DESCRIPTORS:**

**Major Concepts:** ...Neural Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/12 (Item 6 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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09554076 **Biosis No.:** 198987001967

**SYMPATHETIC TONE AFFECTS HUMAN LIMB VASCULAR RESISTANCE  
DURING A MAXIMAL METABOLIC STIMULUS**

**Author:** SINOWAY L I (Reprint); WILSON J S; ZELIS R; SHENBERGER J;  
MCLAUGHLIN D P; MORRIS D L; DAY F P

**Author Address:** DIV CARDIOL, DEP MED, MILTON S HERSHEY MED CENT, PA  
STATE UNIV, HERSHEY, PA 17033, USA\*\*USA

**Journal:** American Journal of Physiology 255 ( 4 PART 2 ): p H937-H946 1988

**ISSN:** 0002-9513

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**SYMPATHETIC TONE AFFECTS HUMAN LIMB VASCULAR RESISTANCE  
DURING A MAXIMAL METABOLIC STIMULUS**

**Abstract:** ...arterial occlusion (the peak reactive hyperemic blood flow response, RHBF) both before and after a **stimulus** to induce heightened sympathetic tone. The **stimulus** was the application of ice to the forehead for 90 s just before and during... .cntdot. min-1 .cntdot. 100 ml-1; not significant), but R during the maximal metabolic **stimulus** rose (pre 2.5 vs. post 3.2 mmHg .cntdot. min .cntdot. 100 ml;  $P < 0.05$ ). To examine the effects of heightened **sympathetic tone** on conduit vessels, simultaneous **measurements** of maximal metabolic blood flow (RHBF) and brachial artery Doppler velocity (V, cm/s) were...

**DESCRIPTORS:**

**Major Concepts:** ...Neural Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/13 (Item 7 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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09211702 Biosis No.: 198886051623

## **MODULATION OF AN IDIOVENTRICULAR RHYTHM BY VAGAL TONE**

**Author:** WAXMAN M B (Reprint); CUPPS C L; CAMERON D A

**Author Address:** TORONTO GEN HOSP, EATON WING 12-215, 200 ELIZABETH ST, TORONTO, ONT M5G 2C4, CAN\*\*CANADA

**Journal:** Journal of the American College of Cardiology 11 ( 5 ): p 1052-1060 1988

**ISSN:** 0735-1097

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** ...is described. This pacemaker was slowed by maneuvers that enhanced vagal tone, including carotid sinus **massage**, the postrelease phase of the Valsalva maneuver and phenylephrine. The pacemaker was also slowed by... ..receptor blocking drug (hyoscine butylbromide). The actions of these maneuvers and agents were independent of **sympathetic tone** as propranolol pretreatment did not alter their effects. Similarly, propranolol did not affect the pacemaker... ..current because verapamil did not affect its rate. The pacemaker accelerated in response to increased **sympathetic tone** induced by exercise and upright tilting and to the adrenergic agonist isoproterenol. The pacemaker was...

### **DESCRIPTORS:**

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Organisms:**

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/14 (Item 8 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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08676563 Biosis No.: 198784030712

## **STUDIES ON FUNCTIONAL MODIFICATIONS OF THERMOREGULATORY MECHANISMS IN HEAT-ACCLIMATED RABBITS**

**Author:** FUJIWARA M (Reprint); OHWATARI N; TSUCHIYA K; KOSAKA M

**Author Address:** DEP ENVIRON PHYSIOL, INST TROPICAL MED, NAGASAKI UNIV, SAKAMOTO-MACHI 12-4, NAGASAKI 852, JPN\*\*JAPAN

**Journal:** Tropical Medicine 28 ( 4 ): p 301-312 1986

ISSN: 0385-5643

Document Type: Article

Record Type: Abstract

Language: ENGLISH

**Abstract:** ...relative humidity (r.h.) = 60%) for 24 weeks (Heat-Acclimated). And, various parameters to general **thermal stimulation** were compared with those in control rabbits (Control) which were reared in thermoneutral environment ( $T_a = 25.0$ .degree. C, r.h. = 60%) for same duration. For the general **thermal stimulation**, rabbits were lightly restrained only around the cervical region under the conscious condition. The changing... ..these results, it is assumed that functional modifications during heat acclimation might occur in the **neuronal** mechanisms which were influenced by anesthesia. In order to know what is important for these... ..of .alpha. adrenergic-blocker (phentolamine mesylate, 3 mg/kg, i.v.) were observed and these **sympathetic** vasoconstrictor **tones** were compared. Before intravenous administration of phentolamine,  $T_{re}$  at 25.0.degree. C was maintained...

**Descriptors:** THERMAL STIMULATION HUMIDITY VASOCONSTRICTOR TONE

**DESCRIPTORS:**

**Major Concepts:**

**Biosystematic Names:** ...Lagomorpha, Mammalia, **Vertebrata**, Chordata, Animalia

**Organisms:**

**Common Taxonomic Terms:** ...Nonhuman **Vertebrates**; ... ..**Vertebrates**

**Diseases:**

Dialog eLink:

**USPTO Full Text Retrieval Options**

52/3,K/15 (Item 9 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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07615362 **Biosis No.:** 198579034261

**HALOTHANE SENSITIZES CUTANEOUS NOCICEPTORS IN MONKEYS**

**Author:** CAMPBELL J N (Reprint); RAJA S N; MEYER R A

**Author Address:** DEP NEUROSURG, JOHNS HOPKINS UNIV SCH MED, BALTIMORE, MD 21205, USA\*\*USA

**Journal:** Journal of Neurophysiology (Bethesda) 52 ( 4 ); p 762-770 1984

ISSN: 0022-3077

Document Type: Article

Record Type: Abstract

Language: ENGLISH

**Abstract:** ...responses of C-fiber (CMH) and A-fiber (AMH) nociceptive afferents sensitive to mechanical and **heat** stimuli were studied in monkeys. The response to **heat** stimuli was studied with use of a laser **thermal stimulator** that provided stepped

increases in skin temperature over a 7.5-mm-diameter area with... combination of halothane (0.8%) and N<sub>2</sub>O (67%). A standardized set of 10 3-s **heat** stimuli ranging from 41-49.degree. C delivered every 30 s were applied to the receptive field. Both AMH and CMH had a lower threshold and greater response to suprathreshold **heat** stimuli under conditions of halothane-N<sub>2</sub>O anesthesia. The threshold to mechanical stimuli, as tested by... monkeys anesthetized with halothane-N<sub>2</sub>O. The effects of halothane did not relate to effects on **sympathetic tone**, blood **pressure** or cutaneous perfusion. The effect of halothane was still present when sympathetic supply to the extremity was interrupted by sectioning the brachial plexus or by applying local anesthetic to the **nerve** proximal to the recording site. The halothane increased the response of CMH even when the... parameters could not be the basis for the effects of halothane. Halothane sensitizes nociceptors to **heat** stimuli in a reversible dose-dependent manner. This effect is independent of effects on **sympathetic tone** and perfusion. The effects of halothane may be the result of direct effects on the...

**Descriptors:** MACACA-MULATTA MACACA-FASCICULARIS MECHANICAL STIMULI **HEAT** NITROUS OXIDE PENTOBARBITAL SODIUM METHOHEXITAL PHENYLEPHRINE ELECTROPHYSIOLOGY

**DESCRIPTORS:**

**Major Concepts:** ...Nervous System... Neural Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Organisms:**

**Common Taxonomic Terms:** ...Nonhuman **Vertebrates**; ... **Vertebrates**

**Diseases:**

Dialog eLink:

**DSPTO Full Text Retrieval Options**

52/3,K/16 (Item 10 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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07169062 **Biosis No.:** 198477000973

**PLASMA CATECHOLAMINES DO NOT INVARIABLY REFLECT  
SYMPATHETICALLY INDUCED CHANGES IN BLOOD PRESSURE IN MAN**

**Author:** MANCIA G (Reprint); FERRARI A; GREGORINI L; LEONETTI G; PARATI G; PICOTTI G B; RAVAZZANI C; ZANCHETTI A

**Author Address:** CLIN MEDICA IV, PADIGLIONE SACCO, VIA F SFORZA 35,  
20122 MILANO, ITALY\*\* ITALY

**Journal:** Clinical Science (London) 65 ( 3 ): p 227-236 1983

**ISSN:** 0143-5221

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** ...were measured radioenzymatically in 9 subjects during 4 min pressor and depressor responses (intra-arterial **measurements**) induced by increasing and reducing

**sympathetic** vasoconstrictor **tone** via carotid baroreceptor deactivation and **stimulation** (neck chamber technique). During the pressor response (15  $\pm$  3 mmHg, mean  $\pm$  SE) plasma NE and...

**DESCRIPTORS:**

**Major Concepts:** ...**Neural** Coordination

**Biosystematic Names:** ...Primates, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...**Vertebrates**

**Diseases:**

Dialog eLink:

**USPTO Full Text Retrieval Options**

52/3,K/17 (Item 11 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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06619550 **Biosis No.:** 198274035973

**RENAL AND CUTANEOUS VASO MOTOR AND RESPIRATORY RATE  
ADJUSTMENTS TO PERIPHERAL COLD AND WARM STIMULI AND TO  
BACTERIAL ENDO TOXIN IN CONSCIOUS RABBITS**

**Author:** RIEDEL W (Reprint); KOZAWA E; IRIKI M

**Author Address:** MAX-PLANCK-INST PHYSIOL KLIN FORSCHUNG, WG  
KERCKHOFF-INST, D-6350 BAD NAUHEIM, FRG\*\*WEST GERMANY

**Journal:** Journal of the Autonomic Nervous System 5 ( 2 ): p 177-194 1982

**ISSN:** 0165-1838

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** In conscious rabbits, peripheral cold stimuli decreased respiratory rate and increased cutaneous vasomotor **tone** while simultaneously renal **sympathetic nervous** discharge decreased. Peripheral warm stimuli produced the reverse pattern of autonomic effector activity. Injection of... ..warm ambient temperature elicited a biphasic fever response. Within the first 60 min, cutaneous vasomotor **tone** increased, and renal **sympathetic** activity decreased simultaneously. Ear skin vessels dilated and renal sympathetic activity increased by .apprx. 100... ..experiments and showed a negative correlation with the changes of renal constrictor activity during peripheral **thermal stimulation** but only in the 1st phase of fever. Renal innervation is involved in the typical... ..autonomic activity pattern by which temperature homeostasis is preserved. The vasomotor patterns of cold and **heat** stress developing during fever are compatible with the concept of a changed set-point of... ..The depressed respiratory rate and the lack of the renal vascular response to the increased **nervous** activity during the 2nd fever phase and their reversal to normal after acetylsalicylate indicate the...

**DESCRIPTORS:**

**Major Concepts:** ...**Nervous** System... ..**Neural** Coordination

**Biosystematic Names:** ...Lagomorpha, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...Nonhuman **Vertebrates**; ... **Vertebrates**  
**Diseases:**

**Dialog eLink:** [USPTO Full Text Retrieval Options](#)

52/3,K/18 (Item 12 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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0000952993 **Biosis No.:** 19583200040571

**On the physiology of a sympathetic ganglion and the question of vasodilators and sympathetic tone**

**Original Language Title:** Zur Physiologie eines sympathischen Ganglions und zur Frage der Vasodilatoren und des sympathischen Tonus

**Author:** CANNON P; RAULE W; SCHAEFER H

**Author Address:** Physiol. Inst. U., Heidelberg

**Journal:** PFLUGERS ARCH GES PHYSIOL 260 ( (2) ): p 116-136 1954 1954

**Document Type:** Article

**Record Type:** Abstract

**Language:** Unspecified

**On the physiology of a sympathetic ganglion and the question of vasodilators and sympathetic tone**

**Abstract:** ...following on stimulation of afferent nerves was only possible up to frequencies of 3/second. **Thermal stimulation** of the skin had no effect. In spontaneously active fibers this activity was inhibited on...

**DESCRIPTORS:**

**Major Concepts:** ...**Neural** Coordination

**Biosystematic Names:** ...Carnivora, Mammalia, **Vertebrata**, Chordata, Animalia

**Common Taxonomic Terms:** ...Nonhuman **Vertebrates**; ... **Vertebrates**

**Diseases:**

**Dialog eLink:** [USPTO Full Text Retrieval Options](#)

52/3,K/19 (Item 1 from file: 972)

DIALOG(R)File 972: EMBASE

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0080095837 **EMBASE/MEDLINE No:** 2004280113

**Towards improved clinical and physiological assessments of recovery in spinal cord injury: A clinical initiative**

Ellaway P.H.; Anand P.; Bergstrom E.M.K.; Catley M.; Davey N.J.; Frankel H.L.; Jamous A.; Mathias C.; Nicotra A.; Savic G.; Short D.; Theodorou S.



Div. of Neurosci. and Psychol. Med., Imperial College, London, United Kingdom;  
Imperial College, Charing Cross Campus, St Dunstan's Road, London W6 8RP, United Kingdom

**Corresp. Author/Affil:** Ellaway P.H.: Imperial College, Charing Cross Campus, St Dunstan's Road, London W6 8RP, United Kingdom

Spinal Cord ( Spinal Cord ) ( United Kingdom ) June 1, 2004 , 42/6 (325-337)

**CODEN:** SPCOF **ISSN:** 1362-4393

**Item Identifier (DOI):** [10.1038/sj.sc.3101596](https://doi.org/10.1038/sj.sc.3101596)

**Document Type:** Journal ; Conference Paper **Record Type:** Abstract

**Language:** English **Summary language:** English

**Number of References:** 63

**Towards improved clinical and physiological assessments of recovery in spinal cord injury: A clinical initiative**

Clinical practice and scientific research may soon lead to treatments designed to repair **spinal** cord injury. Repair is likely to be partial in the first trials, extending only one... ..injury. Furthermore, treatments that are becoming available are likely to be applied to the thoracic **spinal** cord to minimise loss of function resulting from damage to surviving connections. These provisos have... ..of clinical and physiological tests designed (1) to determine the level and density of a **spinal** cord injury, (2) to provide reliable monitoring of recovery over one or two **spinal** cord segments, and (3) to provide indices of function provided by thoracic **spinal** root innervation, presently largely ignored in assessment of **spinal** cord injury. This article reviews progress of the Clinical Initiative, sponsored by the International **Spinal** Research Trust, to advance the clinical and physiological tests of sensory, motor and autonomic function...

**Medical Descriptors:**

\* **spinal** cord injury

...nerve fiber; neurology; nonhuman; pain; physiology; priority journal; pyramidal tract; quantitative analysis; reflex; sensory evaluation; **skeletal** muscle; skin function; skin sensation; **spinal** nerve; superior oblique muscle; **sympathetic tone**; temperature sensitivity; **touch**; treatment outcome; vibration sense

**Orig. Descriptors:**

Dialog eLink: **ISPO Full Text Retrieval Options**

52/3,K/20 (Item 2 from file: 972)

DIALOG(R)File 972: EMBASE

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0078784035 **EMBASE/MEDLINE No:** 2001390418

**Complex regional pain syndrome and chiropractic**

Muir J.M.; Vernon H.

Intern, Canadian Memorial Chiropractic College, Toronto, Ontario, Canada

...increases the energy cost of exercise, increases post-exercise energy expenditure and the potential of **skeletal** muscles to utilize lipids, and also favours a decrease in post-exercise intake. Moreover, the... ..mediated by an activation of sympathetic nervous system activity that seems to be specific to **skeletal** muscle. It is also important to manipulate macronutrient composition in order to reduce fat intake...

**Medical Descriptors:**

\* body fat; \*energy balance; \*obesity--etiology--et; \*obesity--therapy --th; \*physical activity

...energy expenditure; exercise; fat intake; feeding behavior; food composition; human; lifestyle; lipid storage; muscle metabolism; **skeletal** muscle; **sympathetic tone**

**Orig. Descriptors:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/22 (Item 4 from file: 972)

DIALOG(R)File 972: EMBASE

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0077278581 **EMBASE/MEDLINE No:** 1998188740

**Physical activity, skeletal muscle beta-adrenoceptor changes and oxidative metabolism in experimental chronic heart failure**

Michel C.; Chati Z.; Mertes P.-M.; Escanye J.-M.; Zannad F.

Pharmacology and Cardiology, Equipe d'Accueil 'Insuffisance C., Lab. de Chir. et Med. Exp., 54500 Vandoeuvre les Nancy, France

**Corresp. Author/Affil:** Zannad F.: Equipe d'Acc. 'Insuffisance Card.', Lab. de Chir./Medecine Experimentale, 9, avenue de la Fores de Haye, 54500 Vandoeuvre les Nancy, France

Fundamental and Clinical Pharmacology ( Fundam. Clin. Pharmacol. ) ( France ) July 27, 1998 , 12/3 (263-269)

**CODEN:** FCPHE **ISSN:** 0767-3981

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English **Summary language:** English

**Number of References:** 48

**Physical activity, skeletal muscle beta-adrenoceptor changes and oxidative metabolism in experimental chronic heart failure**

In chronic heart failure (CHF), changes in sympathetic nervous activity and **skeletal** muscle metabolism contribute to a limitation in the capacity for exercise. The aim of this study was to investigate the potential relationships between physical deconditioning, **skeletal** muscle beta- adrenoceptor (beta-AR) characteristics and muscle metabolic changes in rats with coronary ligation... ..CHF suggests that physical deconditioning could not account for the muscle metabolic changes. Changes in **skeletal** muscle energy metabolism were accompanied by changes in beta-AR density, occurring in typically

cord dynorphin expression. Incidence and severity of autotomy were assessed after the intraperitoneal administration of... ..In a subset of two rats from each treatment group, transcardiac perfusion was performed and **spinal** cords were processed for substance P immunoreactivity. GM SUB 1 at 10 and 20 mg... ..0.0001, respectively). However, GM SUB 1, at the doses studied, failed to alter the **spinal** substance P depletion 21 days after SCN. These results indicate that the ganglioside GM SUB...

**Medical Descriptors:**

\*

...drug effect; eye color; male; nerve regeneration; nociception; nonhuman; pain; priority journal; rat; sciatic nerve; **sympathetic tone**; weight reduction

**Orig. Descriptors:**

**Dialog eLink:**

**USP10 Full Text Retrieval Options**

52/3,K/26 (Item 8 from file: 972)

DIALOG(R)File 972: EMBASE

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0070466148 EMBASE/MEDLINE No: 1976033144

**Diversity of regional sympathetic outflow in integrative cardiovascular control: patterns and mechanisms**

Simon E.; Riedel W.

Max Planck Inst. Physiol. Klin. Forsch., W.G. Kerckhoff Inst., Bad Nauheim, Germany

**Corresp. Author/Affil:** : Max Planck Inst. Physiol. Klin. Forsch., W.G. Kerckhoff Inst., Bad Nauheim, Germany

Brain Research ( BRAIN RES. ) December 1, 1975 , 87/2-3 (323-333)

**CODEN:** BRREA **ISSN:** 0006-8993

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English

Reflux inputs from cardiovascular receptors, though essential for blood **pressure** homeostasis, play no basic role in the generation of the sympathetic response patterns which are induced by **spinal thermal stimulation** and by changes of blood gas composition. It is concluded that these patterns of regionally... ..medullary cardiovascular control centers. The apparent functional significance of the regionally diverse sympathetic responses to **thermal stimulation** and to changes of blood gas composition further suggests that the term 'reflex' may be...

**Medical Descriptors:**

\* blood gas; \*blood **pressure**; \*cardiovascular system; \*central **nervous** system; \*circulation; \*denervation; \*heart rate; \* homeostasis; \*hypercapnia; \*hypothalamus; \*hypoxia; \*mechanoreceptor; \* medulla oblongata; \*pressoreceptor; \*sinus node; \*skin temperature; \*stress ; \*stretch receptor; \***sympathetic nerve**; \***sympathetic tone**; \*temperature; \*vagotomy

Dialog eLink: **ISPTO Full Text Retrieval Options**

52/3,K/27 (Item 9 from file: 972)

DIALOG(R)File 972: EMBASE

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0064631295 EMBASE/MEDLINE No: 1179891

**Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries**

Effektivnost' kompleksnogo lecheniia fizicheskimi faktorami bol'nykh s travmoi pozvonochnika i spinnogo mozga

Kalny'sh I.I.

**Corresp. Author/Affil:** Kalny'sh I.I.

Zhurnal nevropatologii i psikiatrii imeni S.S. Korsakova (Moscow, Russia : 1952) ( Zh Nevropatol Psikhiatr Im S S Korsakova ) ( Russian Federation ) December 1, 1975 , 75/9 (1324-1328)

**ISSN:** 0044-4588

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline

**Language:** Russian

**Effectiveness of the complex therapy using physical factors of patients with spinal cord injuries**

It is demonstrated that a trauma of the **spine** with a damage of the **spinal** cord in the thoracal area leads to an increase in the **tone** of the **sympathical** and parasympathical part of the vegetative nervous system and arterial tone of the affected extremities... ..the author found a correlation between the clinical picture and a subsequent increase in the **tone** of the **sympathical** part of the vegetative nervous system and arterial tone of the legs.

**Medical Descriptors:**

\* physiotherapy; \***spinal** cord injury--therapy--th; \***spine** injury--therapy--th adolescent; adult; aged; article; bath; blood pressure; female; human; iontophoresis; kinesiotherapy; Latvia; male; **massage**; middle aged; mud therapy; muscle tone; pathophysiology; skin test; vascular resistance

**Orig. Descriptors:**

Dialog eLink: **ISPTO Full Text Retrieval Options**

52/3,K/28 (Item 10 from file: 972)

DIALOG(R)File 972: EMBASE

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Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/29 (Item 11 from file: 972)

DIALOG(R)File 972: EMBASE

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0080063342 **EMBASE/MEDLINE No:** 2004248421

**Does sympathetic nerve discharge affect the firing of myelinated cutaneous afferents in humans?**

Elam M.; Macefield V.G.

Institute of Clinical Neuroscience, Sahlgren University Hospital, S-413 45 Goteborg, Sweden

**Author email:** mikael.elam@neuro.gu.se

**Corresp. Author/Affil:** Elam M.: Institute of Clinical Neuroscience, Sahlgren University Hospital, S-413 45 Goteborg, Sweden

**Corresp. Author Email:** mikael.elam@neuro.gu.se

Autonomic Neuroscience: Basic and Clinical ( Auton. Neurosc. Basic Clin. ) ( Netherlands ) April 30, 2004 , 111/2 (116-126)

**CODEN:** ANUEB **ISSN:** 1566-0702

**Publisher Item Identifier:** S1566070204000293

**Item Identifier (DOI):** [10.1016/j.autneu.2004.01.005](https://doi.org/10.1016/j.autneu.2004.01.005)

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English **Summary language:** English

**Number of References:** 35

**Medical Descriptors:**

\*

...mechanical stimulation; mechanoreceptor; median nerve; microelectrode; nerve ending; priority journal; skin blood flow; stimulus; sweating; **sympathetic tone; touch;** vasoconstriction; wrist

**Orig. Descriptors:**

Dialog eLink: **USPTO Full Text Retrieval Options**

52/3,K/30 (Item 12 from file: 972)

DIALOG(R)File 972: EMBASE

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0078688492 **EMBASE/MEDLINE No:** 2001294821

**Quantitative sensory testing, neurophysiological and psychological examination in patients with complex regional pain syndrome and hemisensory deficits**

Rommel O.; Malin J.-P.; Zenz M.; Janig W.

Department of Clinical Neurology, Ruhr-University, Bochum, Germany; BG-Kliniken Bergmannsheil, D-44789 Bochum, Germany

**Corresp. Author/Affil:** Rommel O.: BG-Kliniken Bergmannsheil, Burke-de-la-Camp Platz 1, D-44789 Bochum, Germany

Pain ( Pain ) ( Netherlands ) August 31, 2001 , 93/3 (279-293)

**CODEN:** PAIND **ISSN:** 0304-3959

**Publisher Item Identifier:** S0304395901003323

**Item Identifier (DOI):** [10.1016/S0304-3959\(01\)00332-3](https://doi.org/10.1016/S0304-3959(01)00332-3)

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English **Summary language:** English

**Number of References:** 48

**Medical Descriptors:**

\*

...disease; nerve conduction; neurologic examination; neurophysiology; nociception; pain threshold; perceptive threshold; priority journal; psychologic test; **sympathetic tone**; temperature sense; thermal stimulation; **touch**

**Orig. Descriptors:**

**Dialog eLink:**

**USPIO Full Text Retrieval Options**

52/3,K/31 (Item 13 from file: 972)

DIALOG(R)File 972: EMBASE

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0052327325 **EMBASE/MEDLINE No:** 2007815345C

**Connective tissue massage: influence of the introductory treatment on autonomic functions**

Kiener C.D.; Taslitz N.

Ohio State Univ. C. D, Columbus, OH

**Corresp. Author/Affil:** Kiener C.D.: Ohio State Univ. C. D, Columbus, OH

J. Amer. Phys. Ther. Ass. December 1, 1968 , 48/2 (107-119)

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English **Summary language:** English

**Connective tissue massage: influence of the introductory treatment on autonomic functions**

...be determined and an objective means for evaluating the technique established. The proponents of Bindegeewebe **massage** have reported many therapeutic benefits of the **massage** and have attempted to explain the physiologic responses of the body to the **massage**. Although Bindegewebsmassage is believed to have a primary influence on the autonomic nervous system, few... ..not as great as the variations between either control and Bindegewebsmassage. The presence of a **physical therapist's** applying superficial

strokes did have some effect toward increased sympathetic activity, but the subjects...  
...respond to the therapist's presence and the 'laying-on-of-hands' during the Bindegewebe  
**massage** treatments. The relaxation and parasympathetic activity, said to be induced by  
Bindegewebsmassage did not occur...

**Medical Descriptors:**

\* connective tissue; \***massage**

blood pressure; heart rate; nervous system; physiotherapist; skin conductance; skin  
temperature; stimulation; stimulus; stroke; **sympathetic tone**

**Orig. Descriptors:**

52/3,K/32 (Item 1 from file: 50)  
DIALOG(R)File 50: CAB Abstracts  
(c) 2011 CAB International. All rights reserved.

0006436842 **CAB Accession Number:** 19910448128

**Milking machine induced teat tissue reactions with special emphasis on beta-  
adrenoceptor stimulation.**

Hamann, J.

Institute for Hygiene, Federal Dairy Research Centre, 2300 Kiel, Germany.

Brief Communications of the XXIII International Dairy Congress, Montreal, October 8-  
12, 1990, Vol. I.

**Conference Title:** Brief Communications of the XXIII International Dairy Congress,  
Montreal, October 8-12, 1990, Vol. I.

p.271 (507)

**Publication Year:** 1990

**Publisher:** International Dairy Federation Brussels , Belgium

**ISBN:** 0-9694713-4-3

**Language:** English

**Record Type:** Abstract

**Document Type:** Abstract only; Conference paper

The reactivity of the teat tissue to mechanical **forces applied** during milking will be  
influenced by the **sympathetic tone** , and the number and ratio of alpha- and beta-  
adrenergic receptors located in the teat... .. expected physiological responses of the teat  
tissue are more or less over-ridden by the **applied mechanical forces**. The increase in teat  
end thickness after 15 min overmilking at 50 kPa vacuum was...

**Broader Terms:** ...vertebrates;

**CABICodes:**

Dialog eLink: **ISPTO Full Text Retrieval Options**

52/3,K/33 (Item 1 from file: 164)

DIALOG(R)File 164: Allied & Complementary Medicine

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00228712      **The British Library:** 0018394

### **Beroring, massage och behandlingseffekter**

Lund I

Nord Fysioter , Volume: 4 , Issue: 3 , Page: 104-7

2000

**Document Type:** Journal Article

**Language:** Swedish

**Record Type:** Abstract

**ISSN:** 1402-3024

**Descriptors - Key Word :** PAIN; **MASSAGE**; **TOUCH**; PHYSIOTHERAPY; METHODS; PHYSIOLOGY

### **Beroring, massage och behandlingseffekter**

**Abstract (English Summary):** Sensory stimulation by the use of **massage** has been used in all cultures since early civilisation in order to treat diseases, pain... ..developed pain research has resulted in a re-evaluation of older treatment methods such as **massage**. The effects of this method are based on an increased activity in the endogenous systems by afferent stimulation of peripheral nerves originating in skin and musculature. During **massage** different types of mechano-receptors are most likely activated thereby inducing activity in the afferent fibres, e.g. the Ad- and possibly **touch** sensitive C-fibres. This activity gives rise to a reduced transmission of pain impulses at the **spinal** level in accordance with "the gate control theory of pain". Besides the pain relieving effect modulation of the **sympathetic tone** and endocrinological as well as behavioral effects have been shown. Increased levels of oxytocin in... ..in cerebrospinal fluid have been demonstrated following sensory stimulation that is non noxious, e.g. **touch** and stroking, and shown to trigger the effects of an "anti-stress" pattern including anxiolysis.

**Descriptors - Key Word :** PAIN; **MASSAGE**; **TOUCH**; PHYSIOTHERAPY; METHODS; PHYSIOLOGY



## FULLTEXT

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File 444:New England Journal of Med. 1985-2011/Jan W4  
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Set	Items	Description
S1	115168	SYMPATHETI?
S2	39855	S1/2006:2011
S3	75313	S1 NOT S2
		LIMITALL S3
S4	4725	TONE OR TONES
S5	2189	NEURAL? OR NEURON?
S6	1318	QUANTIF?
S7	119	S3(5N) (QUANTITY OR QUANTITIES OR AMOUNT OR AMOUNTS OR TOTAL OR TOTALS OR SUM OR SUMS OR NUMERICAL?)
S8	3261	S1() (NERVE OR NERVES OR NERVOUS OR FIBER OR FIBERS OR FIBRE OR FIBRES OR GANGLIA? ? OR GANGLIU?)
S9	434	S1()S4
S10	486	S1()S5
S11	20	S7 AND (S8:S10)
S12	17	RD (unique items)

S13           1    S7/TI  
 S14           28   S1(7N)S6  
 S15           23   S14 AND (S8:S10)  
 S16           20   S15 NOT (S11 OR S13)  
 S17           15   RD   (unique items)  
 S18           12   S9(7N)(MEASUR? OR ASSESS? OR ASCERTAIN? OR DETERMIN? OR  
 CALCULAT? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING OR  
 COMPUTATION? ? OR GAUG?)  
 S19           5    S18 NOT (S15 OR S11 OR S13)  
 S20           4    RD   (unique items)

? log off

12/3,K/6 (Item 6 from file: 149)  
 DIALOG(R)File 149: TGG Health&Wellness DB(SM)  
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01667493   **Supplier Number:** 19088476 (USE FORMAT 7 OR 9 FOR FULL TEXT )  
**Effect of transcutaneous electrical nerve stimulation on the pressor response to static handgrip exercise.**

Hollman, Julie E.; Morgan, Barbara J.  
 Physical Therapy , v77 , n1 , p28(9)  
 Jan ,  
 1997

**Publication Format:** Magazine/Journal  
 ISSN: 0031-9023  
**Language:** English  
**Record Type:** Fulltext; Abstract **Target Audience:** Professional  
**Word Count:** 4876   **Line Count:** 00450

# Text:

Key Words: Blood pressure, Static exercise, **Sympathetic nervous** system, Transcutaneous electrical nerve stimulation.

...TENS during a sustained muscle contraction should attenuate the expected increases in arterial pressure and **sympathetic neural** outflow. Accordingly, we measured arterial pressure, heart rate, and sympathetic outflow to skeletal muscle during...

...on paper(double dagger) and videotape.((sections),(parallel))  
 (Figure 1 ILLUSTRATION OMITTED)

Recording of muscle **sympathetic nerve** activity.  
 Recordings of postganglionic **sympathetic nerve** activity were

made by the technique of Vallbo et al.(13) The bony prominence of...

...filtered neurogram and by an upward shift in baseline on the mean voltage neurogram. Muscle **sympathetic nerve** activity is easily identified by its characteristic pulse-synchronous rhythm and its responsiveness to baroreflex...of TENS. After a rest period of 10 minutes, the handgrip exercise was repeated. Muscle **sympathetic nerve** activity was not measured as part of the preliminary protocols.

Protocol 1: pressor response to...

...a computer program with a sampling rate of 128 HZ.(18) For purposes of quantification, **sympathetic nerve** activity was expressed as burst frequency (in bursts per minute) and as total minute activity...  
...caused by muscle tension were excluded from analysis. Values for arterial pressure, heart rate, and **sympathetic nerve** activity obtained during the control period and during the final 15 seconds of handgrip exercise were used for analysis. Changes in arterial pressure, heart rate, and **sympathetic nerve** activity from baseline to the second minute of handgrip exercise during with-TENS and without...8

**Total** ...When static handgrip exercise was performed with concomitant application of TENS over the ipsilateral forearm, **sympathetic** activation was attenuated. The **amount** of **sympathetic** activation, expressed both as increase in burst frequency and as percentage of increase in total...

12/3,K/9 (Item 9 from file: 149)  
DIALOG(R)File 149: TGG Health&Wellness DB(SM)  
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01281047 **Supplier Number: 10998675**  
**Sympathetic muscle nerve activity during sleep in man.**

Hornyak, Magdolna; Cejnar, Michael; Elam, Mikael; Matousek, Milos; Wallin, B. Gunnar  
Brain , v114 , n3 , p1281(15)  
June ,  
1991

**Publication Format:** Magazine/Journal

ISSN: 0006-8950

**Language:** English

**Record Type:** Abstract **Target Audience:** Professional

**Abstract:** ...nervous system, which generally controls the physiological responses outside of voluntary control. The activity of **sympathetic nerves** has not been recorded during sleep in humans. It is possible, however, to measure the... ...during sleep. Although skeletal muscle is under voluntary control, it also receives nerves from the **sympathetic nervous** system which uses muscle responses as part of the means for regulating blood pressure. The...

**Abstract:**

**Captions:** Polygraphic recording of one subject during sleep. (chart); Summary and data from all patients. (table); **Total** muscle **sympathetic** activity and EEG activity. (graph); Gradual fall of **total** muscle **sympathetic** activity during sleep. (graph); Polygraphic recordings in four subjects. (chart); Changes: muscle sympathetic activity, heart...

12/3,K/14 (Item 1 from file: 457)

DIALOG(R)File 457: The Lancet

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0000148631

**\*\*USE FORMAT 7 OR 9 FOR FULL TEXT\*\***

**Obstructive sleep apnoea and stroke**

Yaggi, Henry; Mohsenin, Vahid

The Lancet Neurology vol. 3 , 6 PP: 333-342 Jun 2004 **Document Type:**

PERIODICAL; General Information **Language:** English **Record Type:** New; Fulltext

**Length:** 10 Pages

**Word Count:** 8518

**Text:**

...pressure, showed a gradual increase in waking arterial pressure.<sup>28</sup> In

human beings, recordings of **sympathetic nerve** activity during

wakefulness show that patients with sleep apnoea have significantly higher

**amounts** of **sympathetic nerve** activity than controls

matched for age and gender.<sup>29</sup> In addition, the link between hypertension...

**Cited References:**

...Respir Dis 1992; 146: 321-29.

29 Somers V, Dyken M, Clary M, Abboud F. **Sympathetic neural** mechanisms in obstructive sleep apnea. J Clin Invest 1995;

96: 1897-904.

30 Fletcher E...

17/3,K/1 (Item 1 from file: 148)

DIALOG(R)File 148: Gale Group Trade & Industry DB

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05242912 **Supplier Number:** 11428531

**Evidence of a selective increase in cardiac sympathetic activity in patients with sustained ventricular arrhythmias.**

Meredith, Ian T.; Broughton, Archer; Jennings, Garry L.; Esler, Murray D.

New England Journal of Medicine , v325 , n9 , p618(7)

August 29 , 1991

ISSN: 0028-4793

**Language:** ENGLISH

**Record Type:** ABSTRACT

**Abstract:** ...are more likely to die of sudden cardiac death. One of the functions of the **sympathetic nervous** system is to regulate the heart, and it is suggested that there is a relationship between cardiac **sympathetic** activity and ventricular arrhythmia. To quantify **sympathetic nervous** activity in the hearts of high-risk patients, 10 men and 2 women who had... ..blood using radioactive isotopes) were used to trace norepinephrine, an adrenal hormone that regulates the **sympathetic nervous** system. An almost five-fold increase in cardiac norepinephrine spillover into the bloodstream was found, providing evidence of long-lasting activation of the **sympathetic nervous** system in these patients. Whether such a measurement will be useful in predicting which patients...

17/3,K/2 (Item 1 from file: 149)

DIALOG(R)File 149: TGG Health&Wellness DB(SM)

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02198152 **Supplier Number:** 102519791 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**Autonomic modulation in adolescent obesity. (Obesity).(Author Abstract)**

Nutrition Research Newsletter , 22 , 5 , 10(2)

May ,

2003

**Document Type:** Author Abstract **Publication Format:** Newsletter

ISSN: 0736-0037

**Language:** English

**Record Type:** Fulltext **Target Audience:** Academic; Professional

**Word Count:** 493 **Line Count:** 00046

Recent research has applied methods for **quantifying sympathetic nervous** pathophysiology in obesity-related hypertension. However, there is controversial data on this subject. A

recent...

...groups, LF, but not nonlinear, measures were similar to lean controls,

suggesting biphasic behavior of **sympathetic tone**. The nonlinear analysis showed a decreasing trend with the duration of obesity.

Long-term HRV...

17/3,K/3 (Item 1 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

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03847887 904376961

**University of Groningen, Haren Research in diet and nutrition provides new insights**

Anonymous

Lab Business Week pp: 274

Oct 9, 2005

ISSN: 1552-6461 **Journal Code:** LBBW

**Word Count:** 1134

**Text:**

...dijk@rug.nl.

Study 2: High-fat diet causes insulin changes related to a decreased

**sympathetic tone**, which may lead to impaired glucose homeostasis.

According to a study from France, "To evaluate...

...Moreover," the researchers wrote, "we measured pancreatic and hepatic norepinephrine (NE) turnover, as assessment of **sympathetic tone**, and performed hypothalamic microdialysis to **quantify** extracellular NE turnover. Baseline plasma triglyceride, free fatty acid, insulin, and glucose concentrations were similar...

...and a twofold decrease in the fractional turnover constant was observed,

indicating a change in **sympathetic tone**."

The scientists noted, "In ventromedian hypothalamus of HF rats, the decrease in NE extracellular concentration...

...treatment with oxymetazoline, an alpha(2A)-adrenoreceptor agonist, thus suggesting the involvement of a low **sympathetic tone** in insulin hypersecretion in response to glucose in HF rats," the research team wrote.

"The...

...diet rapidly results in an increased GIIS, at least in part related to a decreased **sympathetic tone**, which can be the first step of a cascade of events leading to impaired glucose...

...in insulin secretion and action induced by high-fat diet are related to a decreased **sympathetic tone**. Am J Physiol Endocrinol Metab, 2005;288(1):E148-E154).

For more information, contact C...

17/3,K/6 (Item 1 from file: 135)  
DIALOG(R)File 135: NewsRx Weekly Reports  
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0000416385 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Studies reveal new findings from Monash University, Australia, research**  
Life Science Weekly, January 23, 2007, p.1372

DOCUMENT TYPE: Expanded Reporting  
LANGUAGE: English  
RECORD TYPE: FULLTEXT  
WORD COUNT: 1175 ...and heart disease."

"We estimated cardiac vagal activity from heart rate variability (HRV) measurements and **quantified sympathetic nervous system (SNS)** activity using plasma noradrenaline

tracer kinetics methodology," wrote M.E. Alvarenga and colleagues... ..healthy volunteers in whom HRV was measured also provided psychological measures."

According to their findings, " **Sympathetic nervous** tone in the heart, based on rates of cardiac noradrenaline spillover, was normal in PD... ..plasma noradrenaline kinetics measurements."

The investigators concluded, Defective neuronal reuptake of noradrenaline, by augmenting the **sympathetic neural** signal in the heart, might have a dual effect, sensitizing the heart such as to...

17/3,K/7 (Item 2 from file: 135)  
DIALOG(R)File 135: NewsRx Weekly Reports  
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0000254204 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Researchers describe findings in hypertension studies**

Cardiovascular Week, October 31, 2005, p.34

DOCUMENT TYPE: Expanded Reporting

LANGUAGE: English

RECORD TYPE: FULLTEXT

WORD COUNT: 1055 ...Teaching Hospitals wrote, "[Our] study was designed, in patients with untreated essential hypertension (EHT), to **quantify** changes in simultaneously measured peroneal muscle **sympathetic nerve** activity (MSNA) and calf vascular resistance (CVR) accompanying atenolol therapy. MSNA was quantified as the... ..com

The information in this article comes under the major subject areas of Antihypertensive Therapy, **Sympathetic Nervous** System, Hypertension, Essential, Vascular Resistance, and Endocrinology.

This article was prepared by Cardiovascular Week editors...

DESCRIPTORS: Antihypertensive Therapy; Atenolol; Cardiology; Dermatology; Drugs; Essential; Hypertension; Iloprost; Pharmaceuticals; **Sympathetic Nervous** System; Therapy; Treatment; University of Giessen; Vascular Resistance; and Endocrinology; All News; Professional News

17/3,K/11 (Item 6 from file: 135)  
DIALOG(R)File 135: NewsRx Weekly Reports  
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0000193804 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Pattern of outflow to muscles may be similar to chronological changes at neurons**

Cardiovascular Week, February 21, 2005, p.10



DOCUMENT TYPE: Expanded Reporting  
LANGUAGE: English  
RECORD TYPE: FULLTEXT  
WORD COUNT: 371

TEXT:

...in amyotrophic lateral sclerosis.

According to the report from Japan, "To confirm correlations between muscle **sympathetic nerve** activity (MSNA) and patients' chronological data, we selected 40 consecutive patients with sporadic amyotrophic lateral sclerosis (ALS) recorded by similar methods. MSNA at rest was **quantified** as the number of **sympathetic** bursts per 100 heartbeats and as the value expressed as a percentage of the predicted... ..The information in this article comes under the major subject areas of Sympathetic Outflow, Muscle **Sympathetic Nerve** Activity, Amyotrophic Lateral Sclerosis, Chronological Change, and Neurology.

This article was prepared by Cardiovascular Week...